



CHRONICALLY-IMPLANTED DEVICE FOR SENSING AND THERAPY

Abstract of the Disclosure

Systems, devices and methods are provided for providing sensing and therapy functions using a chronically-implanted device. According to one embodiment, the device includes a structure adapted to be chronically placed within a biosystem, and further includes sensing circuitry and therapy-providing circuitry attached to the structure. The sensing circuitry is adapted to sense mechanical parameters in the biosystem. The therapy-providing circuitry is adapted to provide therapy to the biosystem. According to various embodiments of the device, the sensing circuitry is further adapted to sense electrical and/or chemical parameters in the biosystem, and/or is adapted to provide electrical therapy and/or to provide drugeluting therapy. One embodiment of the device includes a stent-like structure adapted to be chronically placed intravascularly in the biosystem.

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